

## General Notes

Build tops of headwalls parallel to the grade lines.

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

DHW Elev. The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8"

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Concrete, Rebar, and Welded Wire Fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.

Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications.

The box culvert end section may be built in the field or using precast construction methods. If the contractor elects to use precast construction methods, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions.

The ends of the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M273. See Sections B-B, D-D, E-E, and F-F on Sheet 5.

The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273.

The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.

Drawings not to scale.

## TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Structures No. 3	Each	1
Precast Concrete Box Culvert 12'x4' (M273)	Foot	59
Box Culvert End Section, Culvert No. 3	Each	2
Name Plates	Each	1
Porous Granular Embankment	Cu.Yd.	90
Stone RipRap, Class A1	Ton	35
Permanent Bench Marks	Each	1

GENERAL PLAN AND ELEVATION
SINGLE 12'x4' PRECAST BOX CULVERT
F.A.P. ROUTE 323 - SECTION (145,146)CR

DOUGLAS COUNTY
STATION 719+50.00 S.N. 021-8054

<u>DRAIN DETAIL</u> Note: Information provided using the Regression Method.		e Regression Method.				<u> </u>	CULVERT NO. 3			
FILE NAME =	USER NAME = bucklesjj	DESIGNED - RLA	REVISED -			GENERAL PLAN AND ELEVATION	F.A.P.	SECTION	COUNTY	TOTAL SHEET
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•	PLOT SCALE = 40.0000 '/ IN.	CHECKED - JMS	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 70696	
	PLOT DATE = 3/22/2010	DATE ~ 11/3/09	REVISED -					ILLINOIS FED.		
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